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App. J for use through 10/31/2002: OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	10/039,586
				Filing Date	1/4/02
				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	SPLX.P0048

U.S. PATENT DOCUMENTS						
Examiner's Initials	Cite No.	U.S. Patent Document Number Kind Code* (If known)		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/BB/	1.	2001/	A1	Scepanovic et al.	06-14-01	
	2.	4,615,011		Linsker	09-30-86	
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/BB/	26.	5,914,887		Scepanovic et al.	06-22-99	
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	35.	6,175,950	B1	Scepanovic	01-16-01	
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/BB/	53.	6,516,455	B1	Teig et al.	02-04-03	
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (If known) <sup>5</sup>				
/BB/	55.	JP	64-15947		Ouchi	01-19-89		
/BB/	56.	JP	04000677		Fujiwara et al.	01-1992		

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
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RELATED U.S. PATENT DOCUMENTS					
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/BB/	1.	2003/0079193	12-07-2001	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	2.	2003/0018947	12-07-2001	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	3.	2002/0147958	10-19-2001	Steven Teig et al.	Parent application per preliminary amendment dated 2/19/03.
	4.	2003/0064559	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	5.	2003/0063568	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	6.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	7.	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
	8.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	9.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
	10.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	11.	Preliminary Amendment S/N 10/040,953	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.
	12.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
↓	13.	Preliminary Amendment S/N 10/040,954	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.

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	15.	Preliminary Amendment S/N 10/040,963		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	10/039,586
				Filing Date	1/4/02
				First Named Inventor	Steven Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	3	of	4	Attorney Docket Number	SPLX.P0048

RELATED U.S. PATENT DOCUMENTS					
/BB/	28.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.	Application with some of the same parent provisional and non-provisional applications.
	29.	Preliminary Amendment S/N 10/047,978	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.
	30.	2002/0133798	12-06-2000	Steven Teig et al.	Application regarding related placement technology
	31.	2002/0100007	12-06-2200	Steven Teig et al.	Application regarding related placement technology.
	32.	2002/0073390 S/N 09/737,210	12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	33.	Preliminary Amendment S/N 09/737,210	12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210
	34.	S/N 09/737,220	12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	35.	S/N 09/737,245	12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	36.	S/N 09/739,460	12-15-2000	Steven Teig et al.	Application regarding related placement technology.
	37.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	Application regarding related placement technology.
	38.	Preliminary Amendment S/N 09/739,580	12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
	39.	S/N 09/739,589	12-15-2000	Steven Teig et al.	Application regarding related placement technology.
	40.	S/N 09/742,171	12-19-2000	Steven Teig et al.	Application regarding related placement technology.
	41.	2003/0121015 S/N 09/745,067	12-19-2000	Steven Teig et al.	Application regarding related placement technology.
↓	42.	Preliminary Amendment S/N 09/745,067	12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.

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				First Named Inventor	Steven Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	SPLX.P0048

RELATED U.S. PATENT DOCUMENTS						
/BB/	43.	2002/0069397		01-13-2002	Steven Teig et al.	Application regarding related placement technology.
↓	44.	2002/0170027		02-20-2002	Steven Teig et al.	Application regarding related placement technology.
↓	45.	2002/0157075		02-20-2002	Steven Teig et al.	Application regarding related placement technology.
↓	46.	2003/0088841 S/N 10/329,241		12-23-2002	Steven Teig et al.	Application regarding related placement technology.
↓	47.	Preliminary Amendment S/N 10/329,241		12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.

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				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	1	of	7	Attorney Docket Number	SPLX.P0048

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/BB/	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
	3.	2003/0005 399	A1	01-02-2003	Igarashi et al.	
	4.	4,593,363		06-03-1986	Burstein et al.	
	5.	5,267,176		11-30-1993	Antreich et al.	
	6.	5,566,078		10-15-1996	Ding et al.	
	7.	5,587,923		12-24-1996	Wang	
	8.	5,618,744		04-08-1997	Suzuki et al.	
	9.	5,635,736		06-03-1997	Funaki et al.	
	10.	5,637,920		06-10-1997	Loo	
	11.	5,640,327		06-17-1997	Ting	
	12.	5,663,891		09-02-1997	Bamji et al.	
	13.	5,757,089		05-26-1998	Ishizuka	
	14.	5,784,289		07-28-1998	Wang	
	15.	5,798,936		08-25-1998	Cheng	
	16.	5,838,583		11-1998	Varadarajan et al.	
	17.	5,889,677		03-30-1999	Yasuda et al.	
	18.	5,980,093		11-09-1999	Jones et al.	
	19.	6,070,108		05-30-2000	Andreev et al.	
	20.	6,128,767		10-03-2000	Chapman	

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				Examiner Name	
Sheet	2	of	7	Attorney Docket Number	SPLX.P0048

U.S. PATENT DOCUMENTS						
/BB/	21.	6,150,193		11-21-2000	Glenn	
	22.	6,209,123	B1	03-27-2001	Mazlasz et al.	
	23.	6,219,832	B1	04-17-2001	Buzbee	
	24.	6,226,560	B1	05-01-2001	Hama et al.	
	25.	6,249,902	B1	06-19-2001	Igusa et al.	
	26.	6,253,363	B1	06-26-2001	Gasarov et al.	
	27.	6,295,634	B1	09-25-2001	Matsumoto	
	28.	6,307,256		10-23-2001	Chiang et al.	
	29.	6,316,838	B1	11-13-2001	Ozawa et al.	
	30.	6,324,674	B2	11-27-2001	Andreev et al.	
	31.	6,324,675	B1	11-27-2001	Dutta et al.	
	32.	6,327,693	B1	12-04-2001	Cheng et al.	
	33.	6,330,707		12-11-2001	Shinomiya et al.	
	34.	6,407,434	B1	06-18-2002	Rostoker et al.	
	35.	6,415,422	B1	07-02-2002	Mehrotra et al.	
	36.	6,442,743	B1	08-27-2002	Sarrafzadeh et al.	
	37.	6,448,591	B1	09-10-2002	Juengling	
	38.	6,473,891	B1	10-29-2002	Shively	
	39.	6,480,991	B1	11-12-2002	Cho et al.	
	40.	6,490,713	B2	12-03-2002	Matsumoto	
	41.	6,519,751	B2	02-11-2003	Sriram et al.	
↓	42.	6,543,043	B1	04-01-2003	Wang et al.	
	43.	6,546,540	B1	04-08-2003	Igarashi et al.	

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				First Named Inventor	Steve Teig
				Group Art Unit	2661
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Sheet	3	of	7	Attorney Docket Number	SPLX.P0048

U.S. PATENT DOCUMENTS						
/BB/	44.	6,557,145	B2	04-29-2003	Boyle et al.	
/BB/	45.	6,567,967	B2	05-20-2003	Greidinger et al.	

FOREIGN PATENT DOCUMENTS								
Examiner* Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>2</sup>	Number <sup>3</sup>	Kind Code (If known)				
/BB/	46.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;	
↓	47.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	48.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	49.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	↓	50.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the

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FOREIGN PATENT DOCUMENTS							
						application.	
/BB/	51.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
/BB/	52.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓

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Sheet	5	of	7	Attorney Docket Number	SPLX.P0048

FOREIGN PATENT DOCUMENTS				
NON PATENT LITERATURE DOCUMENTS				
Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
/BB/	53.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.		
	54.	Brady, L. et al., Channel Routing on a 60° Grid, extended abstract, pp. 956-931.		
	55.	Brambilla, A. et al., Statistical Method for the Analysis of Interconnects Delay in Submicrometer Layouts, IEEE, 8/2001, pp. 957-966.		
	56.	Carothers, K., A Method of Measuring Nets Routability for MCM's General Area Routing Problems, 1999, pp. 186-192.		
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				Filing Date	1/4/02
				First Named Inventor	Steve Teig
				Group Art Unit	2661
				Examiner Name	
Sheet	6	of	7	Attorney Docket Number	SPLX.P0048

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